

Figure 1

beta-IFN kinetic in PEG/PBS+mannitol
(62°C-10 min)

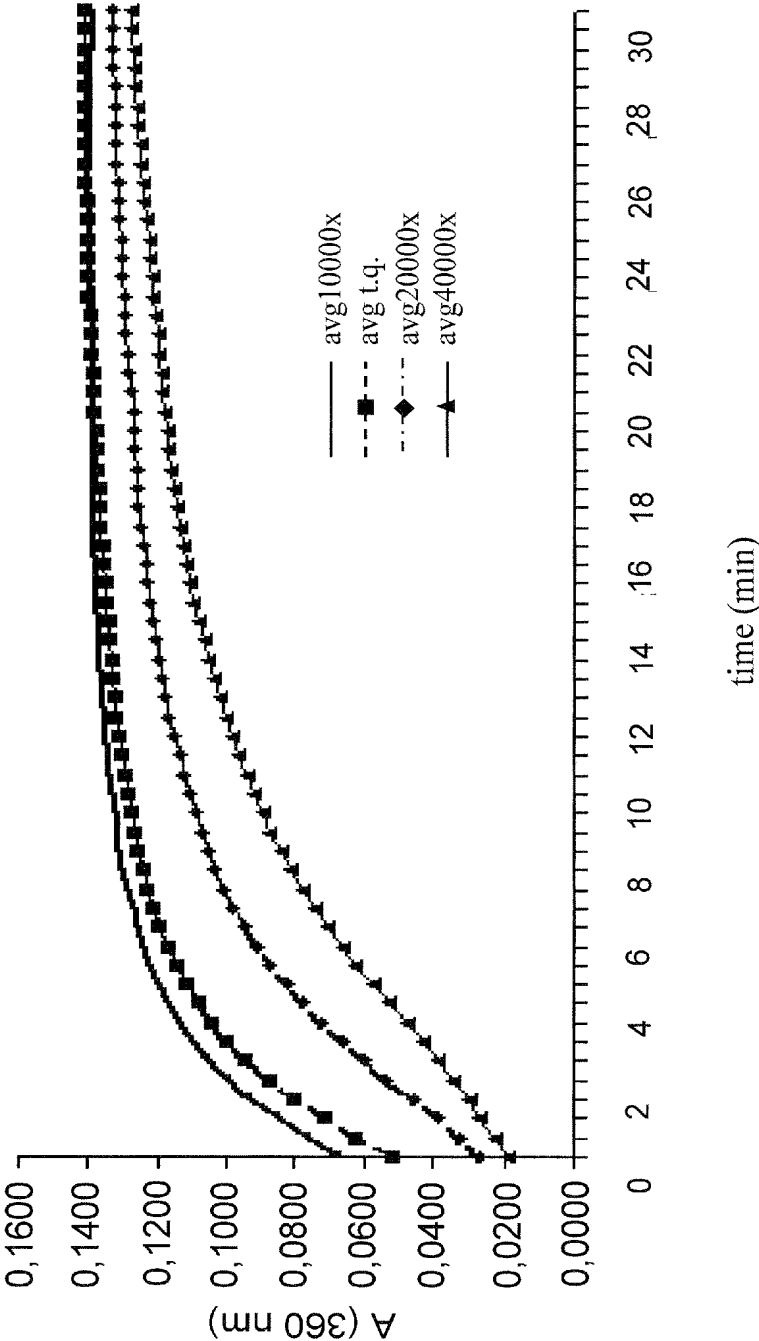


Figure 2

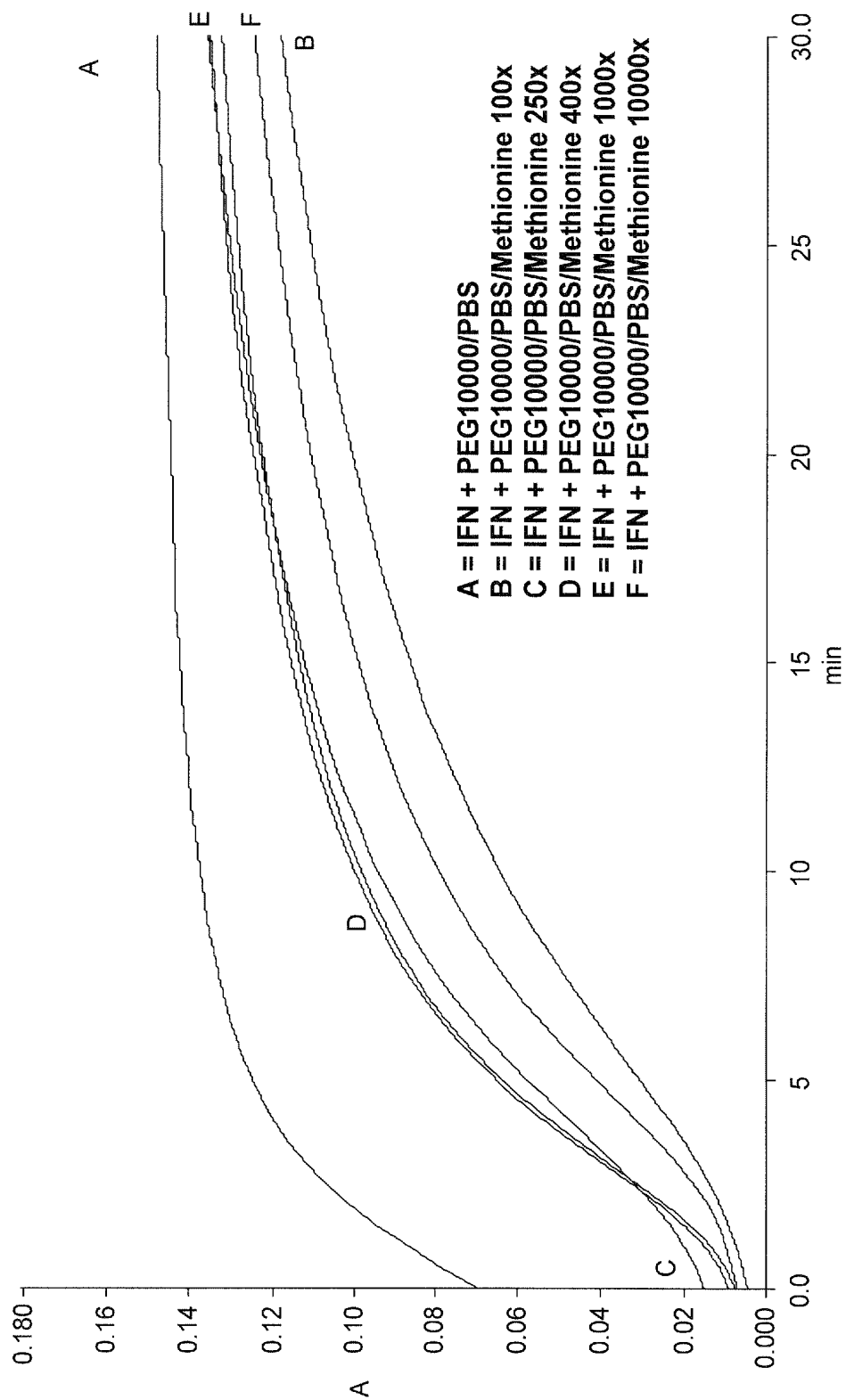


Figure 3

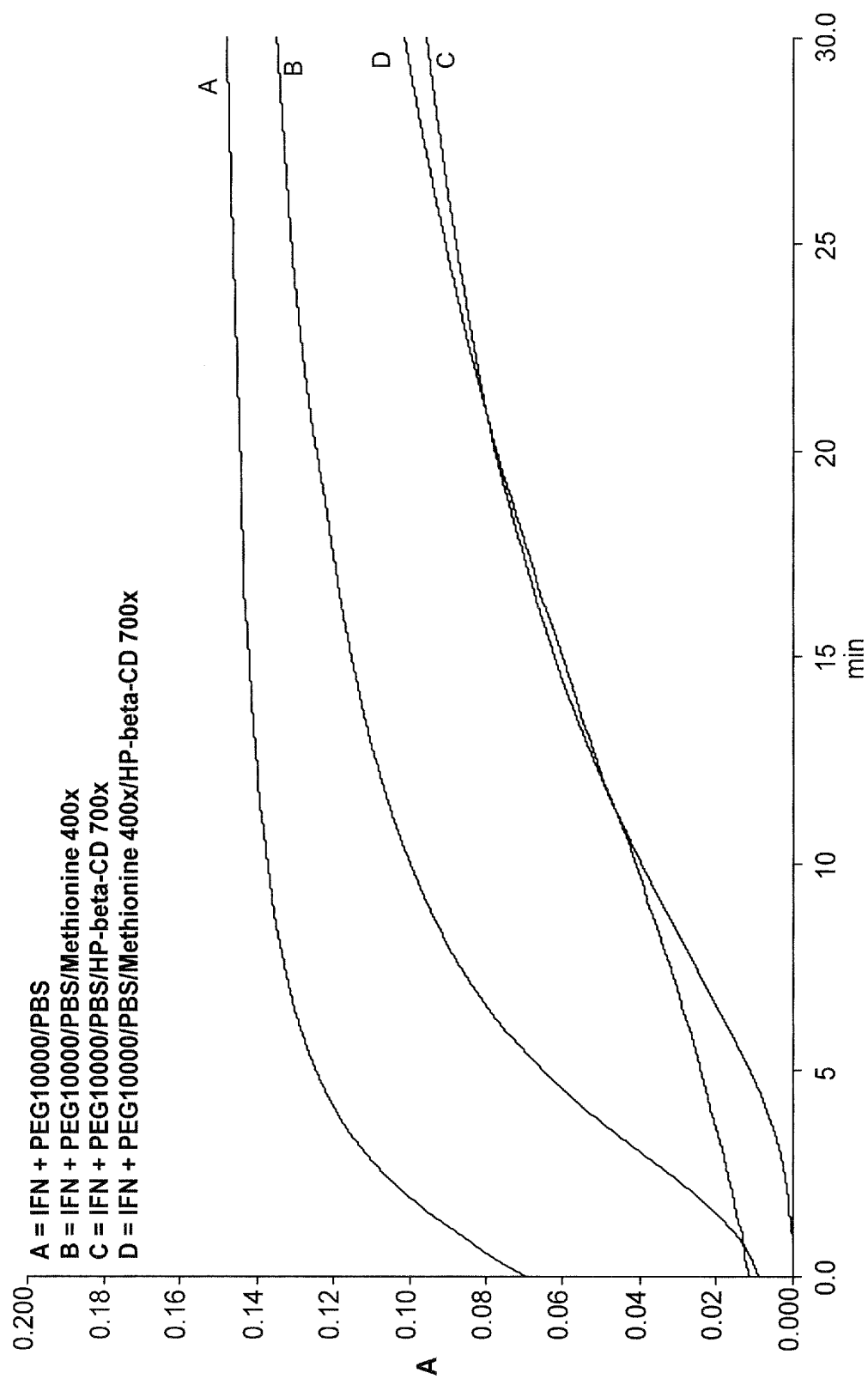


Figure 4

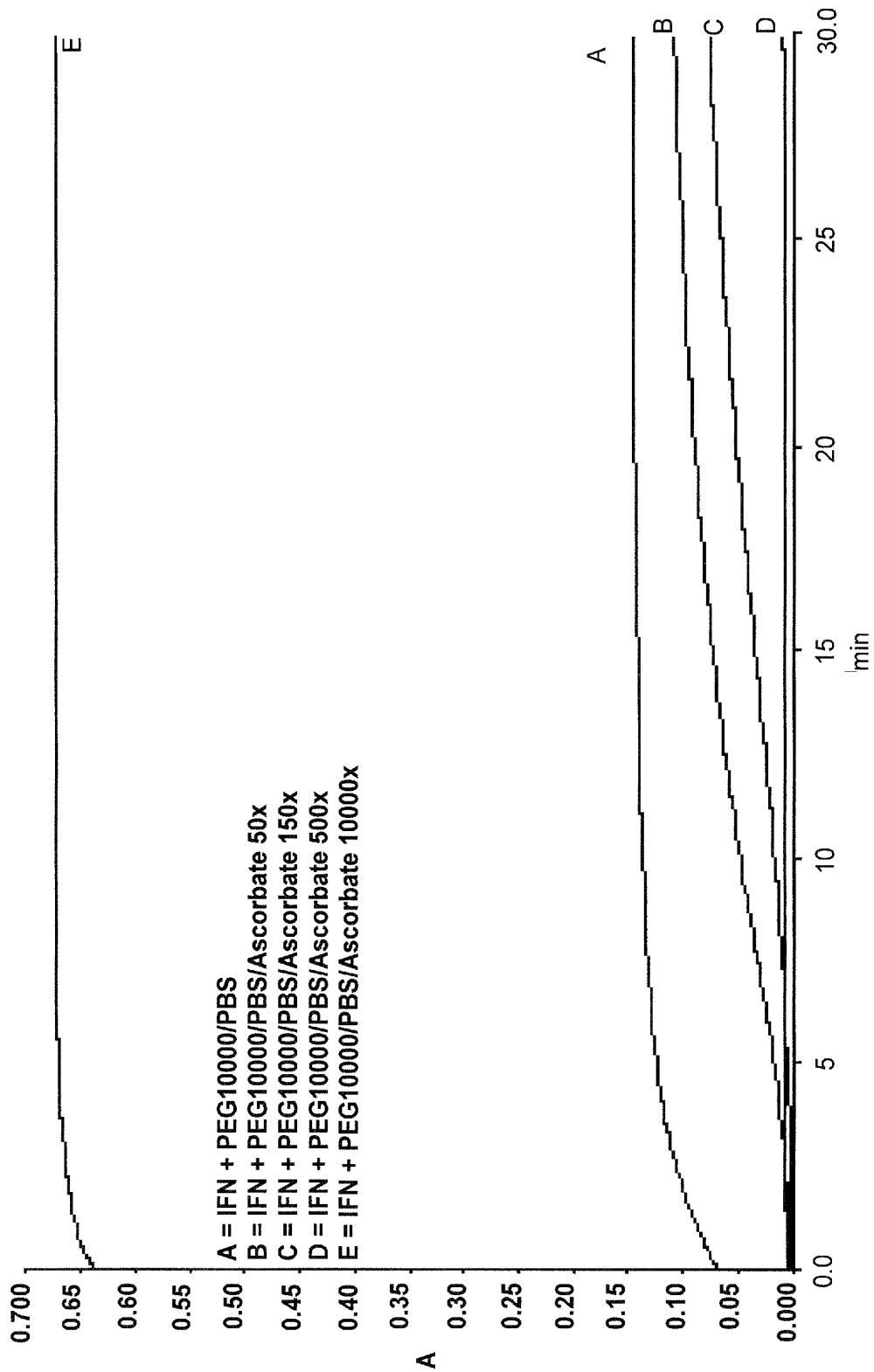
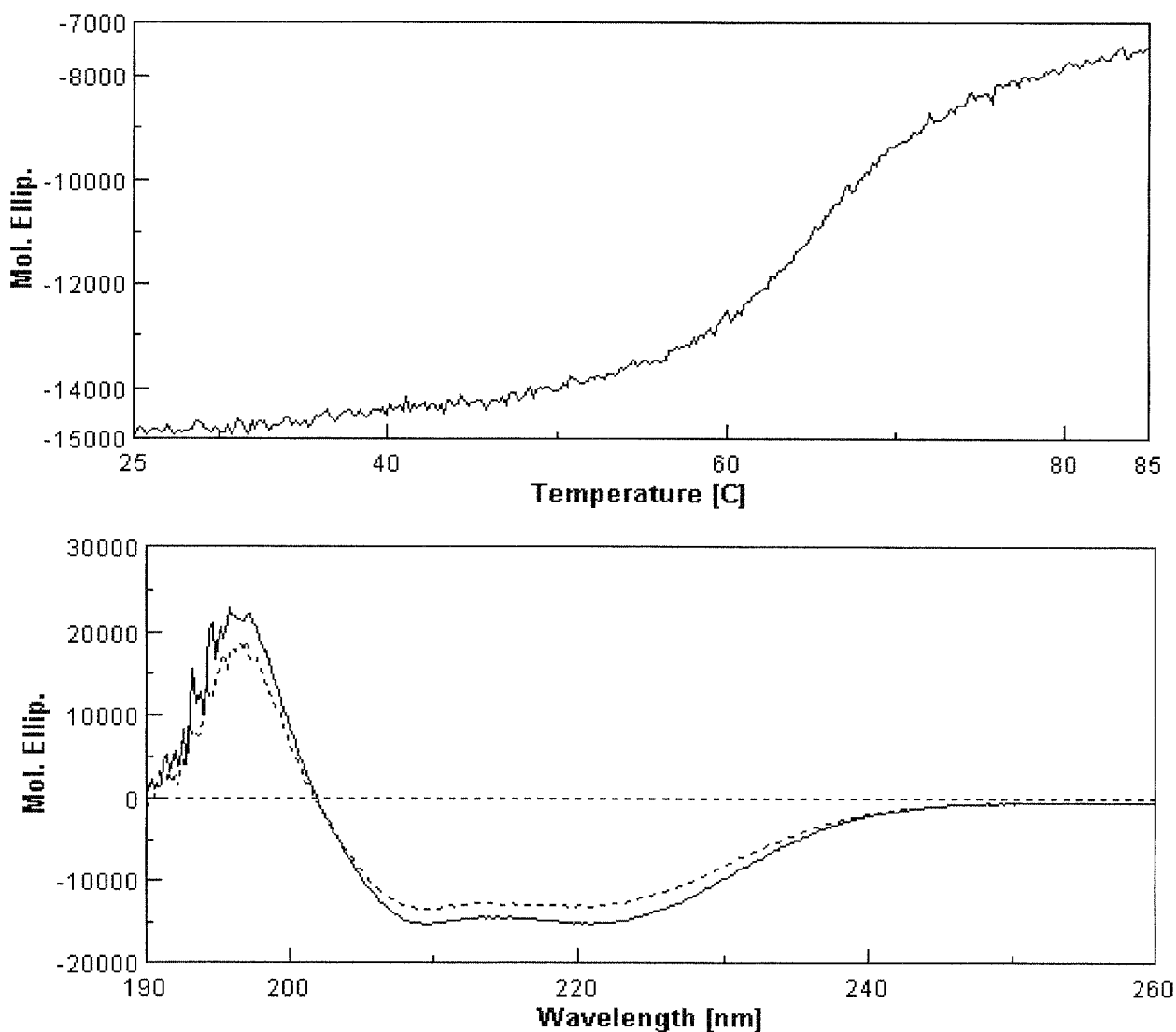


Figure 5



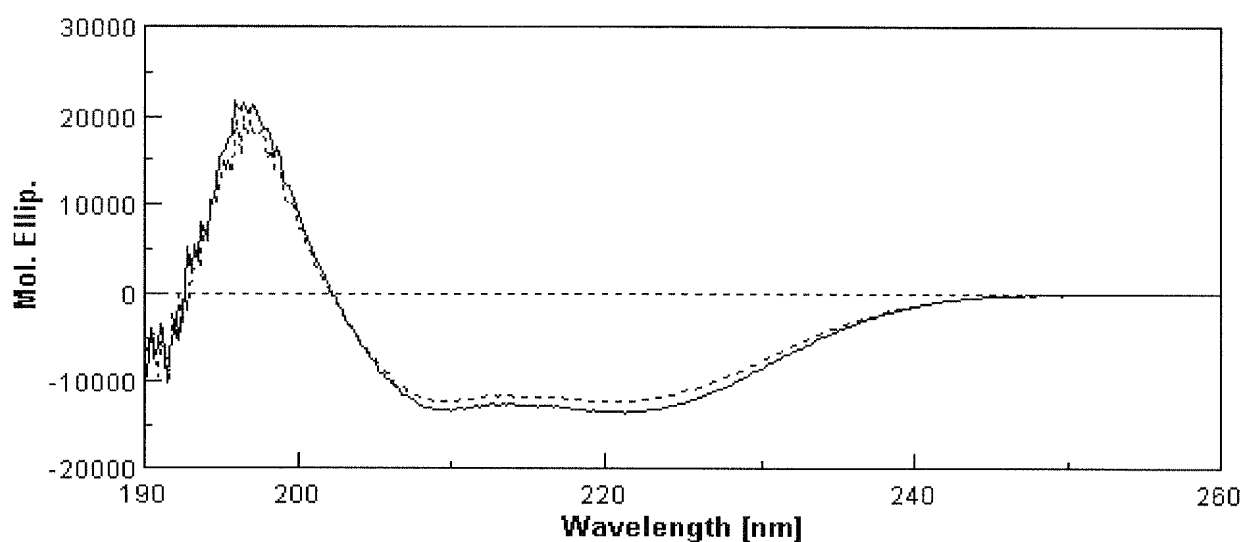
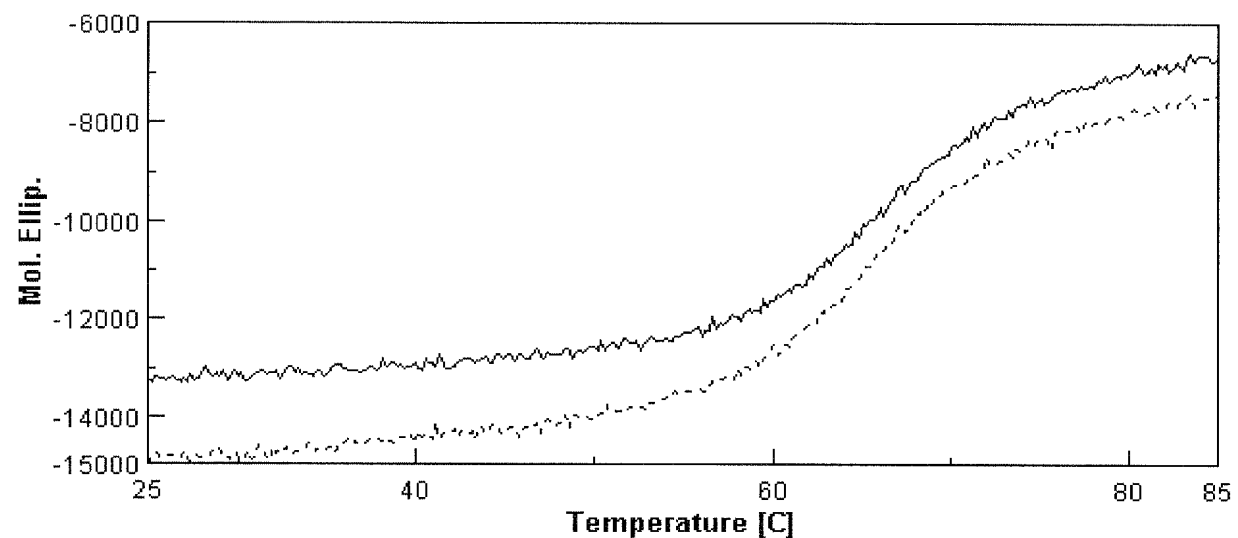
Pre-melting secondary structure content:

| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
|---------------------|------------|------------|------------|------------|------------|
| Helix | 37,88% | 45,33% | 47,95% | 48,63% | 47,78% |
| Antiparallel | 5,95% | 4,78% | 5,30% | 5,28% | 5,28% |
| Parallel | 7,73% | 6,28% | 5,85% | 5,73% | 6,03% |
| Beta-Turn | 16,33% | 14,80% | 14,45% | 14,50% | 14,50% |
| Rndm. Coil | 29,55% | 24,18% | 24,18% | 24,08% | 24,80% |

Post-melting secondary structure content:

| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
|---------------------|------------|------------|------------|------------|------------|
| Helix | 33,58% | 39,38% | 41,18% | 41,98% | 41,03% |
| Antiparallel | 8,95% | 6,58% | 6,58% | 6,28% | 6,45% |
| Parallel | 8,45% | 7,28% | 7,28% | 6,95% | 7,13% |
| Beta-Turn | 17,15% | 15,75% | 15,75% | 15,38% | 15,58% |
| Rndm. Coil | 31,40% | 28,40% | 28,40% | 27,70% | 28,43% |

Figure 6



Pre-melting secondary structure content:

| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
|---------------------|------------|------------|------------|------------|------------|
| Helix | 32,87% | 41,13% | 42,97% | 42,83% | 42,27% |
| Antiparallel | 8,90% | 5,70% | 6,13% | 6,10% | 6,20% |
| Parallel | 8,83% | 7,10% | 6,73% | 6,73% | 6,90% |
| Beta-Turn | 17,20% | 15,37% | 15,13% | 15,23% | 15,30% |
| Rndm. Coil | 33,23% | 28,57% | 27,20% | 27,23% | 27,63% |

Post-melting secondary structure content:

| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
|---------------------|------------|------------|------------|------------|------------|
| Helix | 30,03% | 37,40% | 39,03% | 39,10% | 38,37% |
| Antiparallel | 11,93% | 7,07% | 7,00% | 6,73% | 7,00% |
| Parallel | 9,37% | 7,77% | 7,50% | 7,53% | 7,60% |
| Beta-Turn | 17,83% | 16,03% | 15,83% | 15,77% | 15,93% |
| Rndm. Coil | 34,37% | 30,30% | 29,27% | 29,47% | 29,90% |

Figure 7

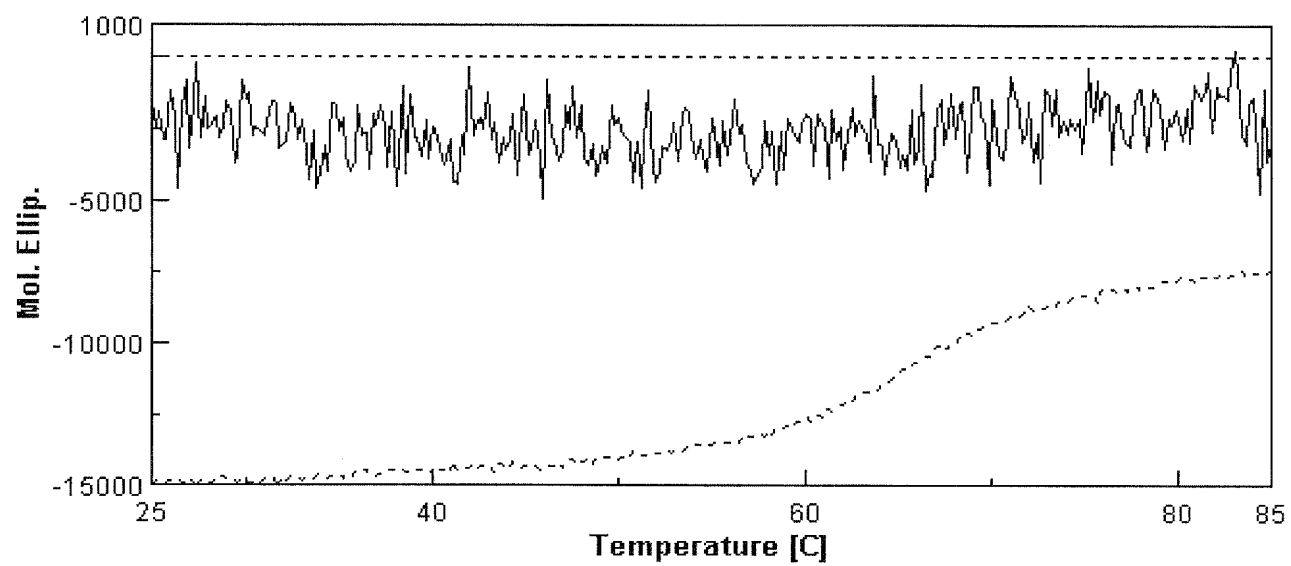
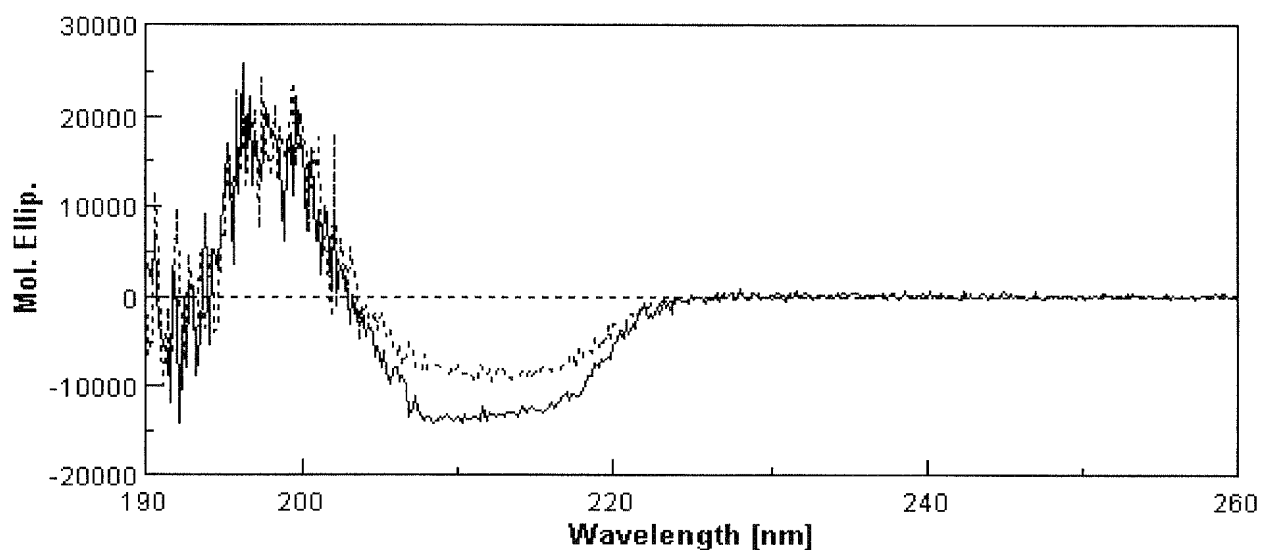


Figure 8



| Pre-melting secondary structure content: | | | | | |
|---|------------|------------|------------|------------|------------|
| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
| Helix | 25,50% | 30,30% | 35,00% | 30,50% | 28,70% |
| Antiparallel | 21,70% | 11,40% | 8,70% | 8,80% | 9,80% |
| Parallel | 9,80% | 9,20% | 8,40% | 9,90% | 10,00% |
| Beta-Turn | 19,30% | 17,60% | 17,20% | 17,50% | 17,90% |
| Rndm. Coil | 33,70% | 32,60% | 30,00% | 34,80% | 36,30% |
| Post-melting secondary structure content: | | | | | |
| | 190-260 nm | 195-260 nm | 200-260 nm | 205-260 nm | 210-260 nm |
| Helix | 24,20% | 25,60% | 28,80% | 21,70% | 20,70% |
| Antiparallel | 18,70% | 13,20% | 10,30% | 11,50% | 13,20% |
| Parallel | 11,20% | 11,50% | 10,70% | 13,60% | 12,80% |
| Beta-Turn | 18,80% | 18,20% | 18,00% | 19,10% | 19,80% |
| Rndm. Coil | 40,50% | 40,80% | 37,40% | 43,00% | 43,40% |

Figure 9

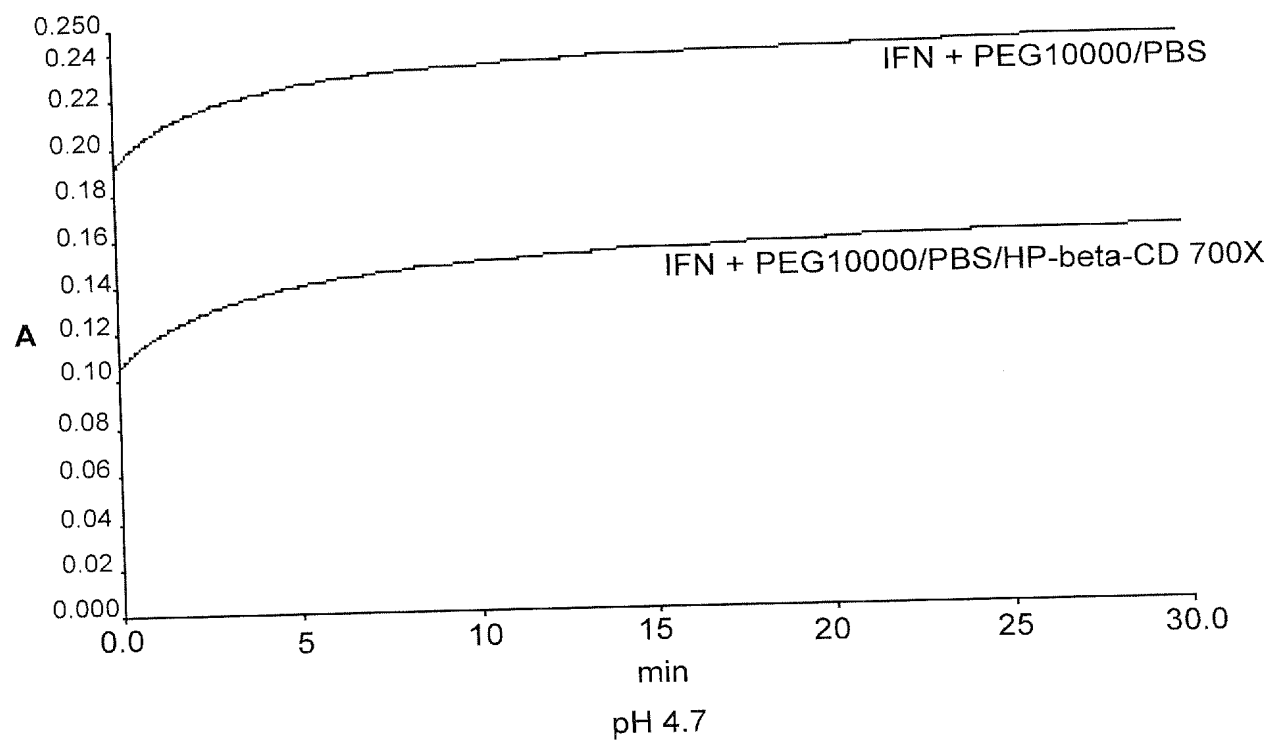
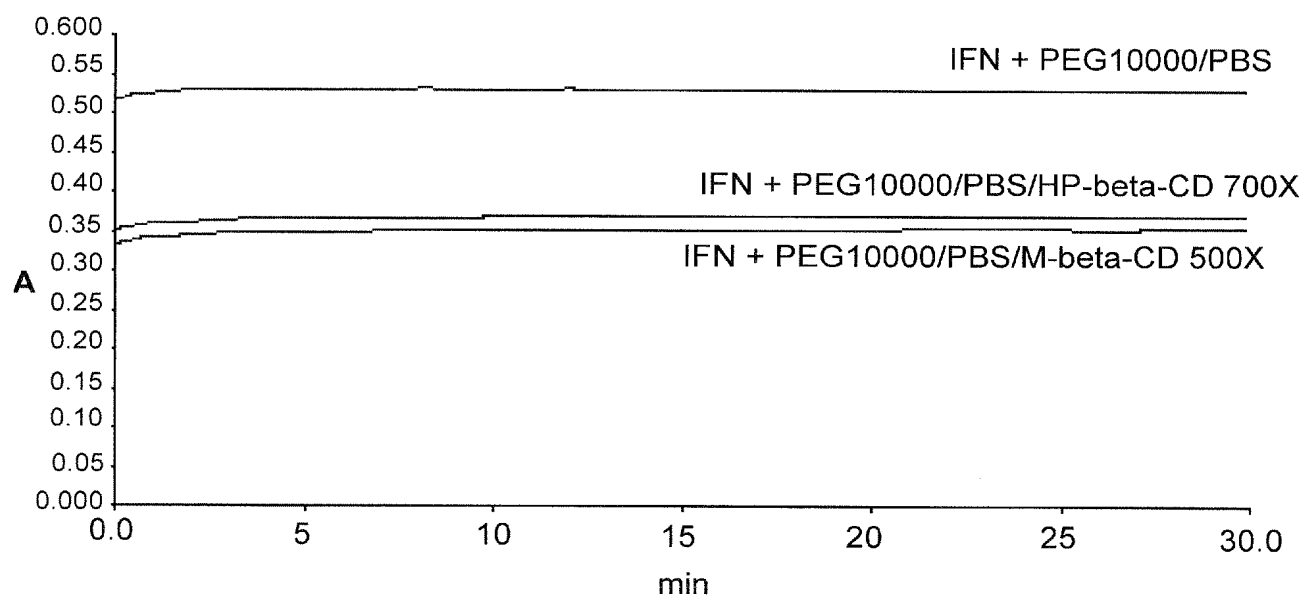


Figure 10



pH 5.1

Figure 11

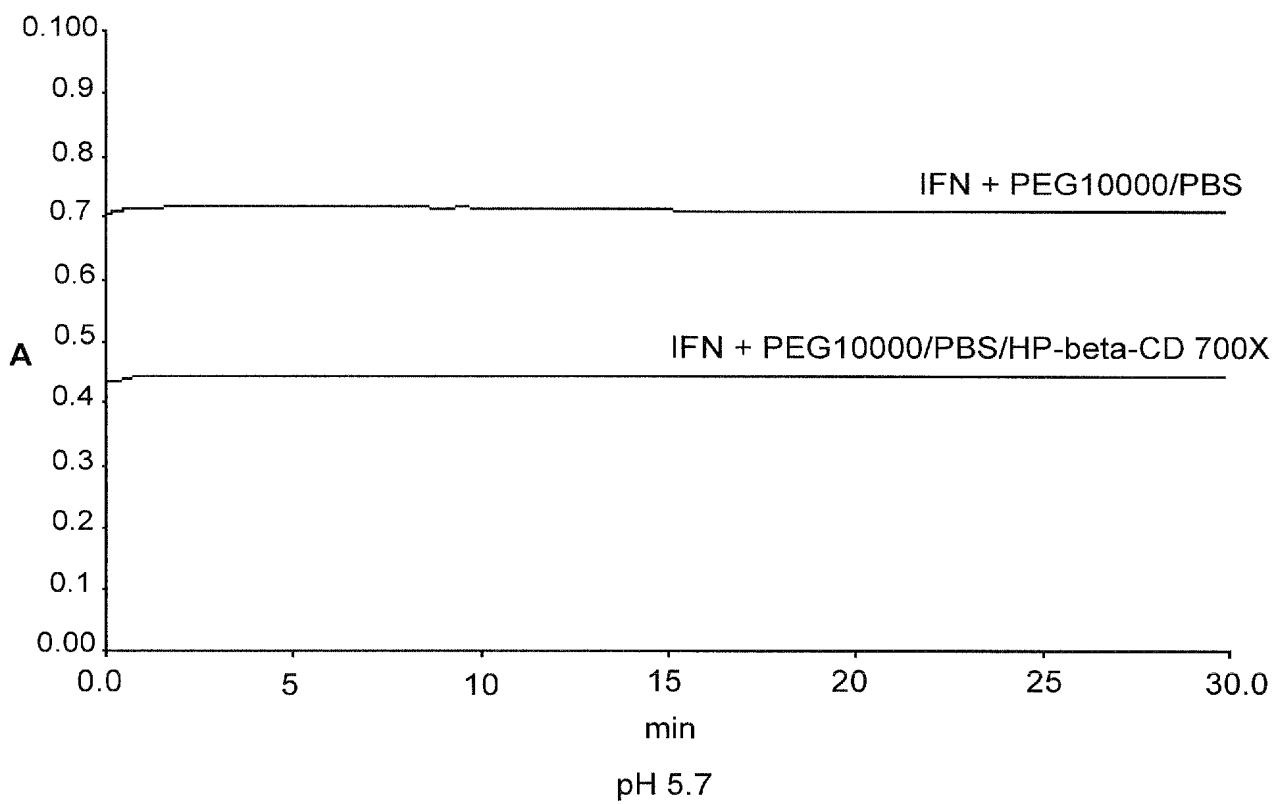


Figure 12